

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) Method for communicating identification information from a terminal device to a network with a primitive having information elements with a structure recognized by said terminal device and at least one other entity able to communicate over said network, ~~characterized by~~comprising:
providing said primitive with an information element identifying a client of said terminal device, and ~~by~~
providing said primitive identifying said client also with an information element identifying a user of said client.
2. (Currently amended) The method of claim 1, ~~characterized by~~wherein said primitive ~~comprising~~comprises an update presence primitive for use in communicating presence information to said network.
3. (Currently amended) The method of claim 1, ~~characterized by~~wherein said primitive ~~comprising~~comprises an unsubscribe presence primitive for communicating a request to said network to discontinue receipt of selected presence information.
4. (Currently amended) The method of claim 1, ~~characterized by~~wherein said primitive ~~comprising~~comprises a leave group primitive for communicating a request to discontinue participation in a group to said network.
5. (Currently amended) The method of claim 1, ~~characterized by~~wherein said primitive ~~comprising~~comprises a create group primitive for communicating a request to create a group to said network.

6. (Currently amended) The method of claim 1, ~~characterized by~~wherein said primitive ~~comprising~~comprises a delete group primitive for communicating a request to delete a group to said network.
7. (Currently amended) The method of claim 1, ~~characterized by~~wherein said primitive ~~comprising~~comprises a get group information primitive for communicating a request for group information to said network.
8. (Currently amended) The method of claim 1, further ~~characterized by~~comprising:
providing said primitive with an information element identifying a client of another terminal device, and ~~by~~
providing said primitive with an information element identifying a user of said client of said ~~another~~ terminal device.
9. (Currently amended) The method of claim 8, ~~characterized by~~wherein said primitive ~~comprising~~comprises a get presence primitive for communicating a request for presence information to said network.
10. (Currently amended) The method of claim 8, ~~characterized by~~wherein said primitive ~~comprising~~comprises a subscribe presence primitive for communicating a request to subscribe to presence information to said network.
11. (Currently amended) The method of claim 8, ~~characterized by~~wherein said primitive ~~comprising~~comprises a message primitive for communicating a message to said network.
12. (Currently amended) The method of claim 8, ~~characterized by~~wherein said primitive ~~comprising~~comprises an invite user primitive for communicating a request to invite a user to said network.

13. (Currently amended) The method of claim 1, ~~characterized by~~wherein said at least one other entity ~~comprising~~comprises at least one server able to recognize said structure of said primitive, ~~and the method comprises:~~by

said client first logging onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema, ~~by~~

the client receiving back an authorization failure signal from said server with a nonce serving as a challenge for the client, ~~by~~

the client calculating a digest concatenating the nonce, a user password and a client identification using the supported digest schema, ~~by~~

the client once again logging onto said server but this time with the calculated digest, ~~by~~

the server recalculating the digest using the supported schema and using the nonce and the ~~client~~user password and client identification extracted by the server from the digest provided by the client, and ~~by~~

the server comparing the re-calculated digest ~~to~~with the provided digest and accepting the login if they match.

14. (Currently amended) The method of claim 1, ~~further characterized by~~wherein said at least one other entity ~~using~~is configured to use said information element identifying a client of said terminal device and said information element identifying a user of said client to distinguish said user and said client.

15. (Currently amended) System for communicating identification information over a network, ~~characterized by~~comprising:

at least one terminal device for providing a primitive with an information element identifying a client of said terminal device and ~~also with an~~ information element identifying a user of said client, ~~and~~by

at least one other entity for receiving said primitive provided over said network, ~~and by~~

wherein using said information element identifying a client of said terminal device and said information element identifying a user of said client are used by the at least one other entity to distinguish said user and said client.

16. (Currently amended) The system of claim 15, ~~characterized by~~wherein said primitive ~~comprising~~comprises an update presence primitive for use in communicating presence information to said network.

17. (Currently amended) The system of claim 15, ~~characterized by~~wherein said primitive ~~comprising~~comprises an unsubscribe presence primitive for communicating a request to said network to discontinue receipt of selected presence information.

18. (Currently amended) The system of claim 15, ~~characterized by~~wherein said primitive ~~comprising~~comprises a leave group primitive for communicating a request to discontinue participation in a group to said network.

19. (Currently amended) The system of claim 15, ~~characterized by~~wherein said primitive ~~comprising~~comprises a create group primitive for communicating a request to create a group to said network.

20. (Currently amended) The system of claim 15, ~~wherein~~characterized by said primitive ~~comprising~~comprises a delete group primitive for communicating a request to delete a group to said network.

21. (Currently amended) The system of claim 15, ~~wherein~~characterized by said primitive ~~comprising~~comprises a get group information primitive for communicating a request for group information to said network.

22. (Currently amended) The system of claim 15, ~~further characterized by~~wherein said at least one terminal device is configured to provide ~~providing~~ said primitive with an information element identifying a client of another terminal device, and ~~by providing said primitive with~~ an information element identifying a user of said client of said ~~another~~ terminal device.

23. (Currently amended) The system of claim 22, ~~characterized by~~wherein said primitive ~~comprising~~ comprises a get presence primitive for communicating a request for presence information to said network.

24. (Currently amended) The system of claim 22, ~~wherein~~characterized by said primitive ~~comprising~~ comprises a subscribe presence primitive for communicating a request to subscribe to presence information to said network.

25. (Currently amended) The system of claim 22, ~~wherein~~characterized by said primitive ~~comprising~~ comprises a message primitive for communicating a message to said network.

26. (Currently amended) The system of claim 22, ~~wherein~~characterized by said primitive ~~comprising~~ comprises an invite user primitive for communicating a request to invite a user to said network.

27. (Currently amended) The system of claim 15, ~~characterized by~~wherein said at least one other entity ~~comprising~~ comprises at least one server able to recognize said ~~a~~ structure of said primitive,
 ~~by wherein~~ said client is configured to first logging-log onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema, ~~by receive receiving back~~ an authorization failure signal from said server with a nonce serving as a challenge for the client, ~~by the client calculate calculating a~~ digest concatenating the nonce, a user password and a client identification using the supported

digest schema, ~~and by the client~~ once again ~~logging-log~~ onto said server but this time with the calculated digest, ~~by~~

~~and wherein~~ the server is configured to recalculate ~~recalculating~~ the digest using the supported schema and using the nonce ~~and~~, the ~~client-user~~ password and client identification extracted ~~by the server~~ from the digest provided by the client, ~~and by the server comparing~~ compare the re-calculated digest ~~to~~ with the provided digest and ~~accept~~ accepting the login if they match.

28. (Currently amended) Device for communicating identification information ~~over a network~~ with a primitive having information elements with a structure recognized by at least one other entity ~~able to communicate over said a network~~, wherein said device is configured to ~~characterized by~~

~~provide means for providing~~ said primitive with an information element identifying a client of said device, and ~~by~~

~~provide means for providing~~ said primitive identifying said client also with an information element identifying a user of said client.

29. (Currently amended) The device of claim 28, ~~wherein~~ characterized by said primitive ~~comprising~~ comprises an update presence primitive for use in communicating presence information to said network.

30. (Currently amended) The ~~method~~ device of claim 28, ~~wherein~~ characterized by said primitive ~~comprising~~ comprises an unsubscribe presence primitive for communicating a request to said network to discontinue receipt of selected presence information.

31. (Currently amended) The device of claim 28, ~~wherein~~ characterized by said primitive ~~comprising~~ comprises a leave group primitive for communicating a request to discontinue participation in a group to said network.

32. (Currently amended) The device of claim 28, ~~characterized by~~wherein said primitive ~~comprising~~comprises a create group primitive for communicating a request to create a group to said network.

33. (Currently amended) The device of claim 28, ~~characterized by~~wherein said primitive ~~comprising~~comprises a delete group primitive for communicating a request to delete a group to said network.

34. (Currently amended) The device of claim 28, ~~characterized by~~wherein said primitive ~~comprising~~comprises a get group information primitive for communicating a request for group information to said network.

35. (Currently amended) The device of claim 28, wherein said device is further characterized by~~configured to~~

~~means provide for providing~~ said primitive with an information element identifying a client of another device, and by

~~means provide for providing~~ said primitive with an information element identifying a user of said client of said another device.

36. (Currently amended) The device of claim 35, ~~characterized by~~wherein said primitive ~~comprising~~comprises a get presence primitive for communicating a request for presence information to said network.

37. (Currently amended) The device of claim 35, ~~characterized by~~wherein said primitive ~~comprising~~comprises a subscribe presence primitive for communicating a request to subscribe to presence information to said network.

38. (Currently amended) The device of claim 35, ~~characterized by~~wherein said primitive ~~comprising~~comprises a message primitive for communicating a message to said network.

39. (Currently amended) The device of claim 35, ~~characterized by~~wherein said primitive ~~comprising~~comprises an invite user primitive for communicating a request to invite a user to said network.

40. (Currently amended) The device of claim 28, ~~characterized by~~wherein said at least one other entity ~~comprising~~comprises at least one server, ~~by said client and the client is configured to~~ first ~~logging log~~log onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema, ~~by receive~~receiving back an authorization failure signal from said server with a nonce serving as a challenge for the client, ~~by the client calculate~~calculating a digest concatenating the nonce, a user password and a client identification using the supported digest schema, ~~and by the client~~ once again ~~logging log~~log onto said server but this time with the calculated digest, ~~by the server recalculating the digest using the supported schema and using the nonce and the client password and client identification extracted by the server from the digest provided by the client, and by the server comparing the re-calculated digest to the provided digest and accepting the login if they match.~~

41. (Currently amended) The device of claim 28, ~~further characterized by~~wherein said at least one other entity is configured to use ~~using~~ said information element identifying a client of said terminal device and said information element identifying a user of said client to distinguish said user and said client.

42. (Currently amended) Server for communicating identification information over a network with a primitive having information elements with a structure recognized by clients being able to communicate with said server over said network, ~~characterized by~~wherein the server is configured to

~~means for communicating~~communicate said primitive with an information element identifying a client, and ~~by~~

~~means for communicating~~communicate said primitive identifying said client also with an information element identifying a user of said client.

43. (Currently amended) The server of claim 42, ~~characterized by~~wherein said primitive ~~comprising~~comprises an update presence primitive for use in communicating presence information.

44. (Currently amended) The server of claim 42, ~~characterized by~~wherein said primitive ~~comprising~~comprises an unsubscribe presence primitive for communicating a request to discontinue receipt of selected presence information.

45. (Currently amended) The server of claim 42, ~~characterized by~~wherein said primitive ~~comprising~~comprises a leave group primitive for communicating a request to discontinue participation in a group.

46. (Currently amended) The server of claim 42, ~~characterized by~~wherein said primitive ~~comprising~~comprises a create group primitive for communicating a request to create a group.

47. (Currently amended) The server of claim 42, ~~characterized by~~wherein said primitive ~~comprising~~comprises a delete group primitive for communicating a request to delete a group.

48. (Currently amended) The server of claim 42, ~~characterized by~~wherein said primitive ~~comprising~~comprises a get group information primitive for communicating a request for group information.

49. (Currently amended) The server of claim 42, ~~further characterized by~~wherein said server is further configured to

~~means for communicating~~communicate said primitive with an information element identifying another client, and ~~by~~

~~means for communicating~~communicate said primitive with an information element identifying a user of said other client.

50. (Currently amended) The server of claim 49, ~~characterized by~~wherein said primitive ~~comprising~~comprises a get presence primitive for communicating a request for presence information.

51. (Currently amended) The server of claim 49, ~~characterized by~~wherein said primitive ~~comprising~~comprises a subscribe presence primitive for communicating a request to subscribe to presence information.

52. (Currently amended) The server of claim 49, ~~characterized by~~wherein said primitive ~~comprising~~comprises a message primitive for communicating a message.

53. (Currently amended) The server of claim 49, ~~characterized by~~wherein said primitive ~~comprising~~comprises an invite user primitive for communicating a request to invite a user.

54. (Currently amended) The server of claim 42, ~~further characterized by~~wherein the server is configured to

~~means for first receive~~ receiving a login message from said client without said primitive with information elements identifying said client and said user, but identifying a supported digest schema, ~~by~~

~~means for providing~~transmit back an authorization failure signal to said client with a nonce serving as a challenge for the client, ~~by~~

~~means for receiving~~receive from the client a digest calculated by the client concatenating the nonce, a user password and a client identification using the supported digest schema, ~~and by~~

~~means for~~recalculate ~~recalculating~~ the digest using the supported schema and using the nonce ~~and~~ the client ~~user~~ password and client identification extracted from the digest provided by the client, ~~for comparing~~ compare the re-calculated digest ~~to~~ with the provided digest, and ~~for providing~~transmit a result signal to said client accepting the login if they match.

55. (Currently amended) The server of claim 42, ~~further characterized by~~wherein said server ~~having means for using~~is configured to use said information element identifying a client of said terminal device and said information element identifying a user of said client to distinguish said user and said client.

56. (New) A physical device including a client, said client comprising various layers including a service capabilities layer responsive to various constituent information elements for combination into an outgoing primitive, said various constituent information elements including an information element identifying the client of said physical device and an information element separately identifying a user of said client.

57. (New) The device of claim 56, wherein said primitive includes a request for a user identification, said user identification identifies a user which is a destination of a requested operation.

58. (New) The device of claim 57, wherein said primitive further includes a request for a client identification, said client identification identifies a client of the user.

59. (New) System for communicating identification information over a network, comprising at least one terminal device and at least one other entity, wherein said terminal device comprises:

means for providing a primitive with an information element identifying a client of said terminal device, and

means for providing said primitive identifying said client also with an information element identifying a user of said client,

and said at least one other entity comprises

means for receiving said primitive provided by said terminal device over said network, wherein said information element identifying a client of said terminal device and said information element identifying a user of said client are used by the at least one other entity to distinguish said user and said client.

60. (New) The system of claim 59, wherein said at least one other entity comprises at least one server able to recognize a structure of said primitive, and said terminal device comprises:

means for first logging onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema,

means for receiving an authorization failure signal from said server with a nonce serving as a challenge for the client,

means for calculating a digest concatenating the nonce, a user password and a client identification using the supported digest schema, and

means for once again logging onto said server but this time with the calculated digest, and wherein the server comprises:

means for recalculating the digest using the supported schema and using the nonce and the user password and client identification extracted by the server from the digest provided by the client, comparing the recalculated digest with the provided digest and accepting the login if they match.

61. (New) Device for communicating identification information with a primitive having information elements with a structure recognized by at least one other entity over a network, comprising:

means for providing said primitive with an information element identifying a client of said device, and

means for providing said primitive identifying said client also with an information element identifying a user of said client.

62. (New) The device of claim 61, further comprising:

means for providing said primitive with an information element identifying a client of another device, and

means for providing said primitive with an information element identifying a user of said client of said another device.

63. (New) The device of claim 61, wherein said at least one other entity comprises at least one server, and said device comprises:

means for first logging onto said server without providing said primitive with information elements identifying said client and said user, but identifying a supported digest schema,

means for receiving an authorization failure signal from said server with a nonce serving as a challenge for the client,

means for calculating a digest concatenating the nonce, a user password and a client identification using the supported digest schema, and

means for once again logging onto said server but this time with the calculated digest.

64. (New) Server for communicating identification information over a network with a primitive having information elements with a structure recognized by clients being able to communicate with said server over said network, comprising:

means for communicating said primitive with an information element identifying a client, and

means for communicating said primitive identifying said client also with an information element identifying a user of said client.

65. (New) The server of claim 64, further comprising:

means for communicating said primitive with an information element identifying another client, and,

means for communicating said primitive with an information element identifying a user of said other client.

66. (New) The server of claim 64, comprising:

means for receiving a login message from said client without said primitive with information elements identifying said client and said user, but identifying a supported digest schema,

means for transmitting an authorization failure signal to said client with a nonce serving as a challenge for the client,

means for receiving from the client a digest calculated by the client concatenating the nonce, a user password and a client identification using the supported digest schema,

means for recalculating the digest using the supported schema and using the nonce and the user password and client identification extracted from the digest provided by the client,

means for comparing the re-calculated digest with the provided digest, and

means for transmitting a result signal to said client accepting the login if they match.